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Diploma Programme
Programme du diplôme
Programa del Diploma

Information technology in a global society
Higher level
Paper 3

Thursday 20 May 2021 (morning)

Candidate session number

1 hour 15 minutes

Instructions to candidates

- Write your session number in the boxes above.
- Do not open this examination paper until instructed to do so.
- Read the case study carefully.
- Answer all questions.
- Answers must be written within the answer boxes provided.
- The maximum mark for this examination paper is **[30 marks]**.

2221 – 5515

8 pages

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Answer **all** questions. Answers must be written within the answer boxes provided.

Refer to *The FaceToFace facial recognition application* case study **and** to your own related research in responding to the following questions.

1. (a) *FaceToFace* used the coffee shop as a proof of concept for the facial recognition application.

Outline **one** reason why the coffee shop was used as a proof of concept. [2]

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(b) Outline **one** reason why the facial recognition application may not be able to capture an accurate image of the customer's face. [2]

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2. Explain the processes *The FaceToFace* facial recognition application uses to identify a person using faceprints. [6]

3. *HomeThings* is a local company that sells a wide range of homeware products and has approached *FaceToFace* about using the facial recognition application.

FaceToFace has told *HomeThings* that any potentially negative impacts on stakeholders arising from the collection and use of the data from the application must be minimized. Additionally, before FaceToFace will agree to the implementation of the facial recognition application, *HomeThings* will need to carry out an impact assessment.

Discuss what factors should be considered when policies are developed by *HomeThings* for the management of the data collected by the facial recognition application. [8]

Your response to question 4 **must** include evidence of independent research linked to *The FaceToFace facial recognition application* case study.

4. A high school principal has approached Carol about implementing the facial recognition application in his school. The school already has security cameras in open areas, the cafeteria and the corridors. The proposals to introduce the facial recognition application has divided opinion within *FaceToFace* and the school community.

Discuss whether *FaceToFace's* facial recognition application should be introduced in this high school. [12]